

MARINE CORPS WARFIGHTING LABORATORY

To provide a cost-effective solution to improve tactical digital communications quality and quantity by inserting **Voice over Internet Protocol (VoIP)** hardware and software at all tactical echelons. The incorporation of VoIP will greatly reduce the need to have two distinct networks (1 voice, 1 data) by converging them into a single multi-service network while providing enhancements to Quality of Service (QoS).

Background: As data requirements increase for combat units, management of bandwidth resources has become a critical issue. Increasing network traffic, driven by emerging applications, is straining the capacity of communication lines. To keep pace, combat units are looking for better technologies and methodologies to support and manage traffic growth and the convergence of voice with data in the tactical digital network environment.

Description: Voice over IP (VoIP) is a technology that defines a way to carry voice calls over an Internet Protocol (IP) network including the digitization and packetization of the voice streams. IP Telephony utilizes the VoIP standards to create a telephony system where higher level features such as advanced call routing, voice mail, contact centers, etc., can be utilized.

Proven benefits of Voice over IP:

- Deployed successfully during KB(X)
- Provided reliable communications over existing data network (garrison and deployed environments)
- Centrally managed in-house
- Calls (to and from Quantico) charged as a local call regardless of location when in a deployed status.
- No need to rewire when an individual relocates (plug and play)
- Can be used as a single repository for each user (voice, e-mail, and fax)

VOICE OVER INTERNET PROTOCOL

fact sheet



Deliverable Product:

- Tactical Voice over Internet Protocol - UNS #01011UA
- Solution Planning Directive (SPD) signed by CG MCCDC directing MCWL, in coordination with Headquarters Marine Corps C4, to further assess VoIP technology through R&D
- MOA between DISA and MCWL to conduct joint QoS/CoS testing for converged networks
- 9 February 04 initial planning conference scheduled with HQMC C4, MarCorSysCom, MCNOSC, DISA, and MCWL to plan the way ahead for convergence of voice and data communications strategies

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